

evidence of petroleum contamination of the Branch was evident. One small sheen was observed in a 1 x 2 foot pool along the bank of the Branch, but no seepage from the bank was evident. The sheen appeared to be a bi-product of leaves that were rotting in the stagnant pool.

Municipal water serves most of the relative area including Rossi Buick and adjacent establishments.

Several supply wells are located within a one mile radius of the site, but none of the wells would appear to be at risk from the residual subsurface contamination at the site. The closest well serves the RMC Mobil Home Park approximately 1/8 north of the site. This well along with several private bedrock wells are located upgradient from the site. The Berlin water system is southwest of the site and consists of three springs at an elevation in excess of 900 feet above sea level. Three supply wells are also in this area and serve the Berlin Convalescent Home. The tops of the wells are at an elevation above 1,000 feet above sea level. It is highly likely that these systems are upgradient from the alluvial valley to the northeast where Rossi Buick is located. One supply well is located 3/4 mile down-gradient in the Steven's Branch valley and serves the Berlin Mobil Home Park. The well is drilled in bedrock. The distance of this well from Rossi Buick makes impact to the well from residual petroleum at the site remote.

IV. CONCLUSIONS

On the basis of this investigation, Griffin has concluded the following:

- 1) There has been a release or releases of petroleum at this site. The amounts and duration of the release(s) are unknown.
- 2) The source of the release has not been determined. The BTEX compounds detected in MW4 along with the odor apparent during the tank pull suggest gasoline may be a contaminant. The lack of significant MTBE contamination (MTBE has been used in production of most gasoline since approximately 1980) along with the relatively low level of BTEX contaminants present, may indicate gasoline contamination occurred prior to 1973 when the tanks were used for gasoline storage.
- 3) The two tanks removed from the contaminated area were in good shape with no detectable flaws or defects. Gasoline contamination is commonly the result leaks in the piping leading to the pumps associated with USTs. The data collected suggests this may have occurred at this site in the past.
- 4) Soils at this site consist of interbedded alluvial sands, silty sands, and silts. Groundwater apparently flows east at a gradient of 0.2 percent. The low hydraulic gradient may slow the rate of groundwater flow at this site which reduces the threat of impact to the Steven's Branch.

**REPORT ON THE PHASE II
ENVIRONMENTAL RISK ASSESSMENT
AND
INVESTIGATION OF SUBSURFACE
PETROLEUM CONTAMINATION**

AT

**ROSSI BUICK - OLDSMOBILE, INC.
BARRE - MONTPELIER ROAD
BERLIN, VERMONT**

VT DEC SITE #93-1466

DECEMBER 1993

PREPARED FOR:

**PIERINO AND ISABELLA ROSSI
15 SKYLARK TERRACE
BARRE, VT 05641**

PREPARED BY:

**Griffin International Inc.
2B Dorset Lane
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Griffin Project #993547

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I. INTRODUCTION

This report describes the Phase II environmental risk assessment and investigation of residual subsurface petroleum contamination at Rossi Buick - Oldsmobile located in Berlin, VT.

The investigation was conducted by Griffin International Inc. (Griffin) for Pierino and Isabella Rossi of Barre, VT. This investigation was requested by the State of Vermont Department of Environmental Conservation (VTDEC) in a letter from Chuck Schwer dated October 4, 1993.

The site (VTDEC Site #93-1466) is located in a mixed commercial, residential, and wooded area on the Barre - Montpelier Road (US. Rt. 302 east) in Berlin, VT about half way between Barre and Montpelier (See location map in Appendix A.).

The site lies on the flood plain of the Steven's Branch of the Winooski River at an approximate elevation of 560 feet above sea level.

The Rossi Buick -Oldsmobile property was purchase by Mr. Rossi in 1970. At that time two underground storage tanks (USTs) and pumps were used for the retail sale of gasoline. In 1973, the use of the tanks for gasoline sales ceased, and the pumps were removed. The tanks, located in front of the showroom under a paved area, were then used for the storage of waste oil generated by the establishment until 1987. These two tanks were removed under the supervision of Griffin on September 1, 1993. The tanks were in good shape with no noticeable defects. During the removal, contamination was present in the soils and a sheen was noticed on the water which collected in the tank pit. The soils had a noticeable gasoline odor.

Griffin conducted a phase I environmental risk assessment in September 1993 in which it was recommended to determine the degree and extent of subsurface petroleum contamination at the site. This report describes the investigation.

Remaining USTs at the site are: one 5,000 gal. capacity UST used for the storage of heating oil and installed prior to 1970, one 1,000 gal. capacity UST installed in 1980 and used for the storage of heating oil, and one 4,000 gal. capacity UST installed in 1980 and used for the storage of gasoline. Three monitoring wells (MW1, MW2, and, MW3) were installed in March 1993 for the purpose of leak detection in the vicinity of the three USTs.

II. INVESTIGATIVE PROCEDURES

In order to better define the extent of subsurface petroleum contamination at the site, Griffin installed three additional monitoring wells in the area of the former USTs. The locations of the wells are indicated on the Site Map in Appendix A. Depths to groundwater were measured in all six on-site wells, and then water samples were collected from the three new monitoring wells and the closest upgradient old monitoring well for laboratory analysis. Soil samples collected from boreholes of the new monitoring wells were screened for volatile organic compounds (VOCs) with a photo ionization detector (PID). The bank and adjacent surface of the

Steven's Branch, located approximately 150 feet east and downgradient of the site, was screened using a PID and visually inspected for a distance of 300 feet of its length.

A. Monitoring Well Installation

Three monitoring wells (MW4, MW5, and MW6) were installed on November 4 and November 8, 1993 by Green Mountain Boring Co. of Barre, VT under the direct supervision of a Griffin geologist. MW4 was installed in the former USTs' backfilled pit. MW5 was installed downgradient from the former tank pit, and MW6 was installed on-site south of the former tank pit.

The wells were installed using a truck mounted hollow stem auger. The wells are constructed of two inch diameter, 0.010" slot, PVC well screen and attached solid PVC riser. The annulus between the borehole wall and the screened section of each well is filled with sand pack to filter fine sediments from the groundwater entering the well. Approximately one foot above the screened section of each well, the annulus between the borehole wall and the riser is filled with a bentonite clay seal to prevent surface water from entering the borehole. Each well is protected at the surface by locking well cap, flush mounted steel well head protective casing, and a bolt down cover. Each well head protection casing is set in cement. Well construction details are listed on the well logs in Appendix B.

B. Soil Boring and Screening

Soil samples were collected at five foot intervals from the borings of MW4, MW5, and MW6 using a split spoon. Samples were screened for VOCs using a PID and logged by the geologist. Subsurface materials encountered in the borings consisted of interbedded alluvial sands, silty sands, and silts. Elevated VOC concentration were detected in the soils from the boring of MW4 ranging from 245 to 900 ppm throughout the hole. Elevated VOC concentrations were detected in the MW5 boring concentrated in a 6 inch thick sand layer from 6.5 to 7 feet below the surface. No significant VOC concentrations were detected in the soils from the boring of MW6. Detailed lithologic descriptions and VOC concentrations are listed on the well logs in Appendix B.

C. Water Table Measurements And Groundwater Flow

The water table elevation in each monitoring well was measured on November 15, 1993. The water table elevations are based on an arbitrary datum by assigning an elevation of 100 feet to the top of the MW1 well casing. Elevations are plotted on the Groundwater Contour Map in Appendix A. The map indicates that groundwater is flowing ^{east} west. The average hydraulic gradient in the vicinity of the monitoring wells is calculated to be 0.2 percent. This low gradient likely aids in restricting groundwater flow rates at this site.

No free product was detected in any of the monitoring wells. All groundwater level data are recorded on the Liquid Level Table in Appendix C.

D. Groundwater Sampling and Analysis

On November 15, 1993, Griffin collected groundwater samples from the new monitoring wells MW4, MW5, and MW6. A sample was also collected from MW1, the closest leak detection monitoring well to the former tank pit, for upgradient data. Laboratory results are summarized below in Table 1. Laboratory report forms are presented in Appendix D. All samples collected were analyzed for VOCs according to EPA method 602. MW4 and MW5 were resampled on December 14, 1993. The samples were analyzed by EPA method 8240. All samples were collected according to Griffin's groundwater sampling protocol. Duplicate, trip blank, and equipment blank samples collected during the sampling indicate that adequate quality assurance/quality control was maintained during sample collection and analysis.

Analysis of the water sample collected from MW1 detected 63.4 parts per billion (ppb) methyl tertiary butyl ether (MTBE), an anti-knock additive used in the production of gasoline since 1979. MW1 is not an environmental well. The well is bailed weekly to check for tank leakage. The road box of MW1 has been apparently detached from the surface with a snow plow. The road box was cemented back in place on November 4. It is likely that surface runoff contamination could have impacted water in the well.

Analysis of the sample collected on November 15, 1993 from MW4 indicated benzene, ethylbenzene, toluene, and xylenes (components of gasoline collectively termed "BTEX") at a total concentration of 814 ppb. Benzene was the only contaminant detected above the Vermont Groundwater Enforcement Standard (VGES). The concentration of benzene was 42.2 ppb; the VGES for benzene is 5.0 ppb. Analysis of the sample collected on December 14, 1993 indicated benzene in concentration of 68.8 ppb. No contaminants other than BTEX compounds and 3.9 ppb of MTBE were detected by EPA Method 6240.

Analysis of the water sample collected on November 15, 1993 from MW5 indicated 71.1 ppb of benzene in concentration above VGES. Ethylbenzene and xylenes were present in concentrations below VGES. No MTBE was detected. Analysis of the water sample collected on December 14, 1993 indicated benzene in concentration of 68.8 ppb. No contaminants other than BTEX compounds were detected by EPA Method 6240. 8240

Analysis of the water sample from MW6 indicated no detectable contaminants.

III. RECEPTOR SURVEY AND RISK ASSESSMENT

Griffin conducted a visual survey of the site to identify local potential receptors of any subsurface petroleum contaminants. The most likely receptor in the vicinity of this site appears to be Steven's Branch. However, the low hydraulic gradient in the area and the distance of the Branch from the site make significant impact from residual subsurface contamination remote.

On November 4, 1993, Griffin conducted screening for VOCs of the storm drains at the site leading to Steven's Branch using a PID. A 300 ft. length of the bank of the Steven's Branch down gradient from the former USTs' location was screened. No VOCs were detected and no

Groundwater Quality Summary
Rossi Buick
Berlin, Vermont

Monitoring Well 1
All Values Reported in ug/L (ppb)

| PARAMETER | Date of Sample Collection | | | | V.G.E.S. |
|---------------|---------------------------|----------|--|--|----------|
| | 11/15/93 | 12/14/93 | | | |
| Benzene | ND | NS | | | 5.0* |
| Chlorobenzene | ND | NS | | | 100** |
| 1,2-DCB | ND | NS | | | - |
| 1,3-DCB | ND | NS | | | - |
| 1,4-DCB | ND | NS | | | - |
| Ethylbenzene | ND | NS | | | 680** |
| Toluene | ND | NS | | | 2,420** |
| Xylenes | ND | NS | | | 400** |
| Total BTEX | ND | NS | | | - |
| MTBE | 63.4 | NS | | | 40** |
| BTEX + MTBE | 63.4 | NS | | | - |

Monitoring Well 4

| PARAMETER | Date of Sample Collection | | | | V.G.E.S. |
|---------------|---------------------------|----------|--|--|----------|
| | 11/15/93 | 12/14/93 | | | |
| Benzene | 42.2 | 12.7 | | | 5.0* |
| Chlorobenzene | ND | ND | | | 100** |
| 1,2-DCB | ND | ND | | | - |
| 1,3-DCB | ND | ND | | | - |
| 1,4-DCB | ND | ND | | | - |
| Ethylbenzene | 59.7 | 27.1 | | | 680** |
| Toluene | 348 | 30.7 | | | 2,420** |
| Xylenes | 364 | 241 | | | 400** |
| Total BTEX | 813.9 | 311.5 | | | - |
| MTBE | ND | ND | | | 40** |
| BTEX + MTBE | 813.9 | 311.5 | | | - |

Monitoring Well 5

| PARAMETER | Date of Sample Collection | | | | V.G.E.S. |
|---------------|---------------------------|----------|--|--|----------|
| | 11/15/93 | 12/14/93 | | | |
| Benzene | 71.1 | 68.8 | | | 5.0* |
| Chlorobenzene | ND | ND | | | 100** |
| 1,2-DCB | ND | ND | | | - |
| 1,3-DCB | ND | ND | | | - |
| 1,4-DCB | ND | ND | | | - |
| Ethylbenzene | 285 | 215 | | | 680** |
| Toluene | ND | 2.7 | | | 2,420** |
| Xylenes | 108 | 256 | | | 400** |
| Total BTEX | 464 | 543 | | | - |
| MTBE | ND | 3.9 | | | 40** |
| BTEX + MTBE | 464 | 546 | | | - |

V.G.E.S. - Vermont Groundwater Enforcement Standards

* - Maximum Contaminant Level

ND - None Detected

** - Health Advisory Level

TBQ - Trace, below quantitation limits

12/14/93 BY EPA METHOD 8240; ALL OTHERS BY EPA METHOD 602

Groundwater Quality Summary

Rossi Buick
Berlin, Vermont

Monitoring Well 6

All Values Reported in ug/L (ppb)

| PARAMETER | Date of Sample Collection | | | | V.G.E.S. |
|---------------|---------------------------|----------|--|--|----------|
| | 11/15/93 | 12/14/93 | | | |
| Benzene | ND | NS | | | 5.0* |
| Chlorobenzene | ND | NS | | | 100** |
| 1,2-DCB | ND | NS | | | - |
| 1,3-DCB | ND | NS | | | - |
| 1,4-DCB | ND | NS | | | - |
| Ethylbenzene | ND | NS | | | 680** |
| Toluene | ND | NS | | | 2,420** |
| Xylenes | ND | NS | | | 400** |
| Total BTEX | ND | NS | | | - |
| MTBE | ND | NS | | | 40** |
| BTEX + MTBE | ND | NS | | | - |

V.G.E.S. - Vermont Groundwater Enforcement Standards

* - Maximum Contaminant Level

ND - None Detected

** - Health Advisory Level

TBQ - Trace, below quantitation limits

ANALYSIS BY EPA METHOD 602

evidence of petroleum contamination of the Branch was evident. One small sheen was observed in a 1 x 2 foot pool along the bank of the Branch, but no seepage from the bank was evident. The sheen appeared to be a bi-product of leaves that were rotting in the stagnant pool.

Municipal water serves most of the relative area including Rossi Buick and adjacent establishments.

Several supply wells are located within a one mile radius of the site, but none of the wells would appear to be at risk from the residual subsurface contamination at the site. The closest well serves the RMC Mobil Home Park approximately 1/8 north of the site. This well along with several private bedrock wells are located upgradient from the site. The Berlin water system is southwest of the site and consists of three springs at an elevation in excess of 900 feet above sea level. Three supply wells are also in this area and serve the Berlin Convalescent Home. The tops of the wells are at an elevation above 1,000 feet above sea level. It is highly likely that these systems are upgradient from the alluvial valley to the northeast where Rossi Buick is located. One supply well is located 3/4 mile down-gradient in the Steven's Branch valley and serves the Berlin Mobil Home Park. The well is drilled in bedrock. The distance of this well from Rossi Buick makes impact to the well from residual petroleum at the site remote.

IV. CONCLUSIONS

On the basis of this investigation, Griffin has concluded the following:

- 1) There has been a release or releases of petroleum at this site. The amounts and duration of the release(s) are unknown.
- 2) The source of the release has not been determined. The BTEX compounds detected in MW4 along with the odor apparent during the tank pull suggest gasoline may be a contaminant. The lack of significant MTBE contamination (MTBE has been used in production of most gasoline since approximately 1980) along with the relatively low level of BTEX contaminants present, may indicate gasoline contamination occurred prior to 1973 when the tanks were used for gasoline storage.
- 3) The two tanks removed from the contaminated area were in good shape with no detectable flaws or defects. Gasoline contamination is commonly the result leaks in the piping leading to the pumps associated with USTs. The data collected suggests this may have occurred at this site in the past.
- 4) Soils at this site consist of interbedded alluvial sands, silty sands, and silts. Groundwater apparently flows east at a gradient of 0.2 percent. The low hydraulic gradient may slow the rate of groundwater flow at this site which reduces the threat of impact to the Steven's Branch.

5) No impact from petroleum contamination was evident along the bank or on the surface of Steven's Branch. Supply wells in the area do not appear to be at risk from residual petroleum contamination at Rossi Buick.

6) Well MW1 contained MTBE in concentration slightly above VGES. The well is up-gradient from the former waste oil tanks. Contamination may have entered this well from the surface.

7) Samples collected from MW4 and MW5 contained benzene in concentrations above VGES.

8) No free product was evident at this site.

V RECOMMENDATIONS

On the basis of the above conclusions, Griffin recommends the following:

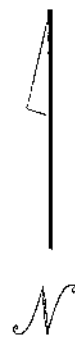
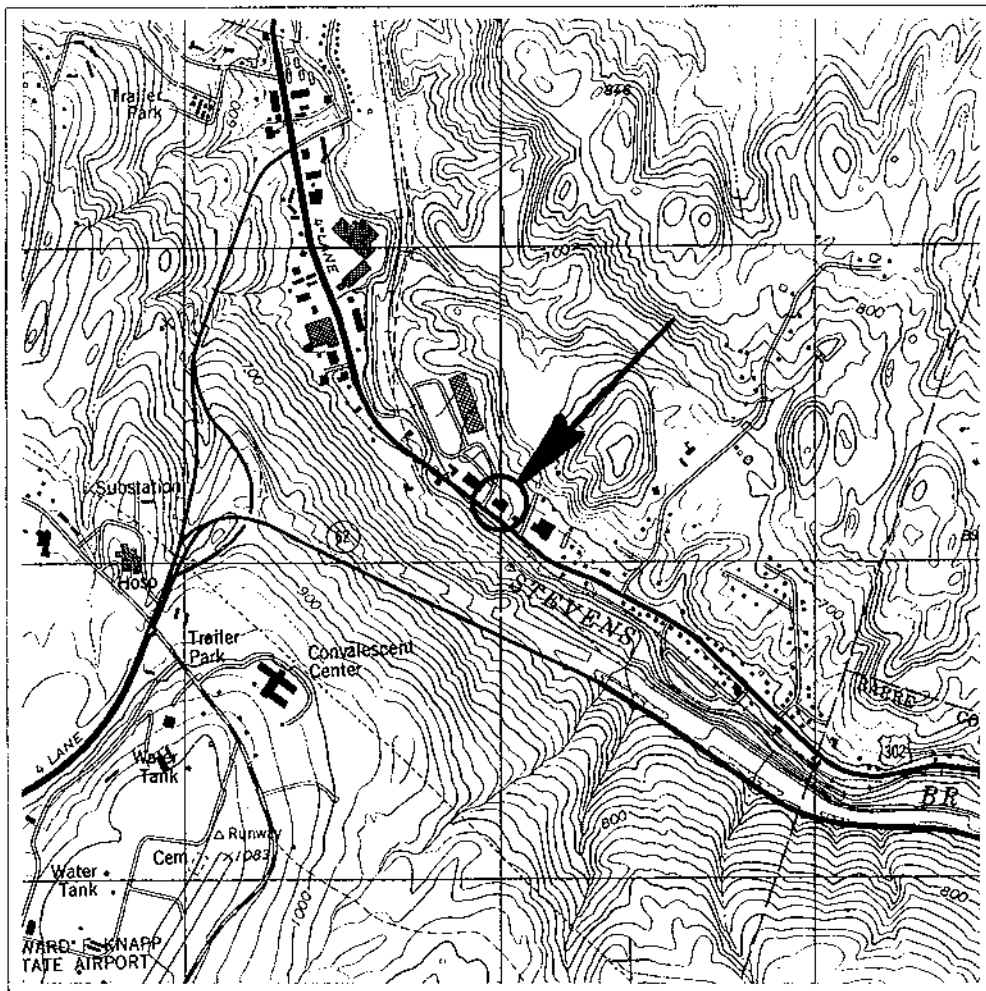
1) Because of the presence of benzene in concentration which exceeds VGES in two monitoring wells at the site, MW4 and MW5 should be sampled again in one year and analyzed by EPA method 602 to establish a downward trend of contaminant concentration.

2) The Steven's Branch should be inspected at the time of sampling.

3) Active remediation at this site is not recommended.

APPENDIX A

SITE LOCATION MAP
SITE MAP
GROUNDWATER CONTOUR MAP



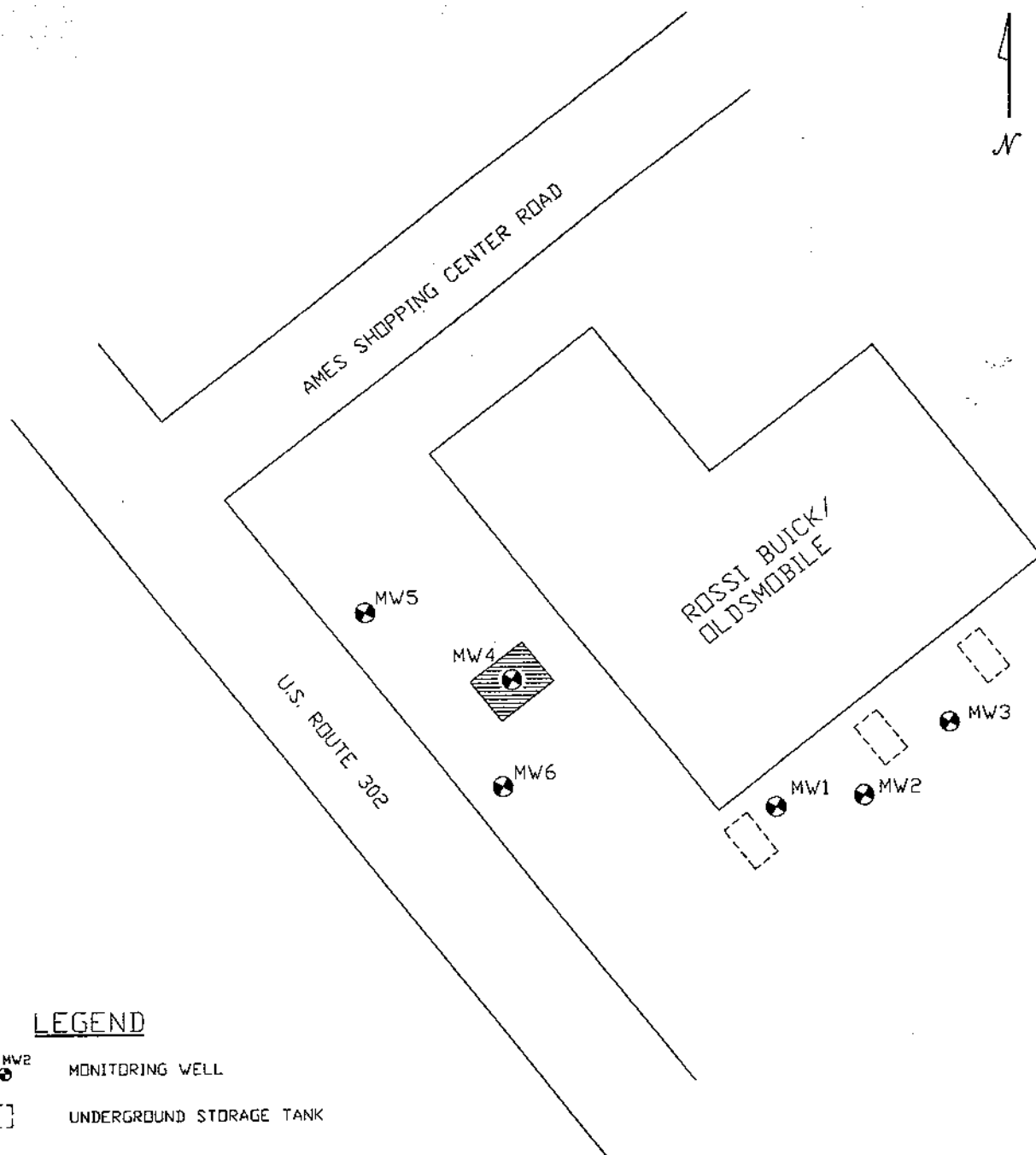
JOB #: 993547

SOURCE: USGS






ROSSI BUICK / OLDSMOBILE
 BERLIN, VERMONT
 SITE LOCATION MAP

| | | | | |
|----------------|----------|------------------|----------|---------|
| DATE: 11/10/93 | DWG.#: 1 | SCALE: 1 : 24000 | DRN.: SB | APP.:LR |
|----------------|----------|------------------|----------|---------|



LEGEND

-  MONITORING WELL
-  UNDERGROUND STORAGE TANK
-  APPROX. LOCATION OF FORMER WASTE OIL UST'S

JOB #: 993547



ROSSI BUICK / OLDSMOBILE

BERLIN,

VERMONT

SITE MAP

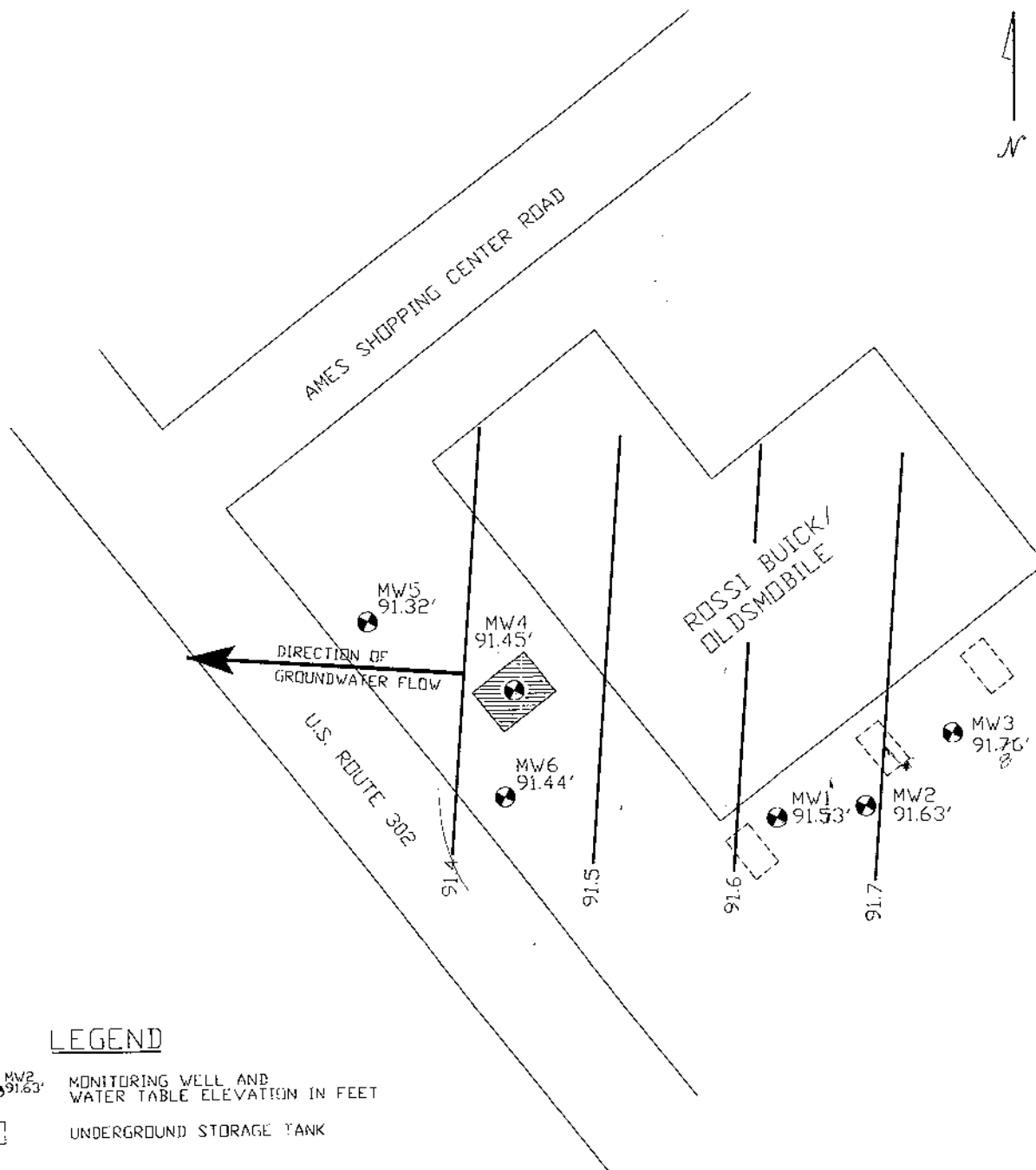
DATE: 11/10/93

DWG.#: 2

SCALE: 1" = 50'

DRN: SB

APP: LR



LEGEND

MW2 91.63' MONITORING WELL AND WATER TABLE ELEVATION IN FEET

[] UNDERGROUND STORAGE TANK

[Hatched Box] APPROX. LOCATION OF FORMER WASTE OIL TANKS

91.6 ——— GROUNDWATER CONTOUR

JLJB #: 993547

SAMPLE DATE: 11/15/93



ROSSI BUICK / OLDSMOBILE

BERLIN,

VERMONT

GROUNDWATER CONTOUR MAP

DATE: 11/10/93

DWG.#: 3

SCALE: 1" = 50'

DRN: SB

APP: LR

APPENDIX B

DRILLING LOGS

PROJECT ROSSI BUICK / OLDSMOBILE

LOCATION RTE. 302, BERLIN, VERMONT

DATE DRILLED 11/4/93 TOTAL DEPTH OF HOLE 12.5'

DIAMETER _____

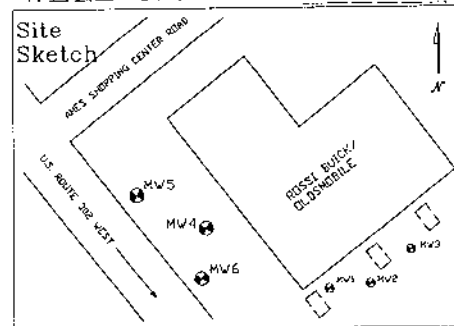
SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.020"

CASING DIA. 2" LENGTH 1'-8" TYPE sch 40 pvc

DRILLING CO. GMB DRILLING METHOD HSA

DRILLER R. FINKLE LOG BY L. REED

WELL NUMBER MW4



GRIFFIN INTERNATIONAL, INC

| DEPTH IN FEET | WELL CONSTRUCTION | NOTES | BLOWS PER 6" OF SPOON & PID READINGS | DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES) | DEPTH IN FEET |
|---------------------|------------------------------------------|-------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------|
| 0 | ROAD BOX LOCKING WELL CAP CONCRETE | | | | 0 |
| 1 | NATIVE BACKFILL | | | | 1 |
| 2 | BENTONITE | | 0' - 5' 600 ppm | Dark brown SAND and GRAVEL FILL, strong petroleum odor | 2 |
| 3 | | | | | 3 |
| 4 | | | | | 4 |
| 5 | WELL RISER | | | | 5 |
| 6 | | | 5'-7'- 5,8,10,12 900 ppm | Fine SAND FILL with some gravel and pebbles, dark brown, slightly damp, strong petroleum odor, petroleum stains | 6 |
| 7 | SAND PACK | | | | 7 |
| 8 | WELL SCREEN | | | 7.0' WATER TABLE | 8 |
| 9 | | | | | 9 |
| 10 | | | 10' 450 ppm | Very dark brown SAND w/pebbles, very wet with visible product (oil) | 10 |
| 11 | | | | | 11 |
| 12 | BOTTOM CAP | | 10'-12' 245 ppm | Wet, fine to coarse SAND w/silt dark brown | 12 |
| 13 | UNDISTURBED NATIVE SOIL | | 12' | Oil stained silty SAND copper & brown layers | 13 |
| 14 | | | | END OF EXPLORATION AT 12.5' | 14 |
| 15 | | | | | 15 |
| 16 | | | | | 16 |
| 17 | | | | | 17 |
| 18 | | | | | 18 |
| 19 | | | | | 19 |
| 20 | | | | | 20 |
| 21 | | | | | 21 |
| 22 | | | | | 22 |
| 23 | | | | | 23 |
| 24 | | | | | 24 |
| 25 | | | | | 25 |

PROJECT ROSSI BUICK / OLDSMOBILE

LOCATION RTE. 302 BERLIN, VERMONT

DATE DRILLED 11/8/93 TOTAL DEPTH OF HOLE 16'

DIAMETER _____

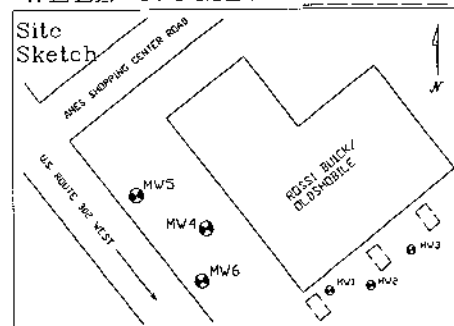
SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.020"

CASING DIA. 2" LENGTH 3' TYPE sch 40 pvc

DRILLING CO. GMB DRILLING METHOD HSA

DRILLER GARNEAU LOG BY L. REED

WELL NUMBER MW5



GRIFFIN INTERNATIONAL, INC

| DEPTH IN FEET | WELL CONSTRUCTION | NOTES | BLOWS PER 6" OF SPOON & PID READINGS | DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES) | DEPTH IN FEET |
|---------------------|----------------------|----------------------------|--------------------------------------------|------------------------------------------------------------------------------------|---------------------|
| 0 | | ROAD BOX | | Asphalt | 0 |
| 1 | | LOCKING WELL CAP | | Dark brown SAND and GRAVEL construction fill | 1 |
| 2 | | CONCRETE | 0.3'-2.5' | | 2 |
| 3 | | NATIVE | | Dark brown silty SAND w/small rounded pebbles, slight petroleum odor | 3 |
| 4 | | BACKFILL | 3.0' | sample off auger flights at 3" slightly damp | 4 |
| 5 | | BENTONITE | 4.7 ppm | Brown CLAY w/silt, dry & dense, no odor | 5 |
| 6 | | WELL RISER | 5'-7'- 10,9,11,21 | Light brown silty SAND, damp, slight odor | 6 |
| 7 | | SAND PACK | 228 ppm | White QUARTZ, SAND angular with black mica, strong petroleum odor, damp | 7 |
| 8 | | WELL SCREEN | | | 8 |
| 9 | | | | 9.0' WATER TABLE | 9 |
| 10 | | | | | 10 |
| 11 | | | 10'-12'- 19,4,3,4 | Oil stained very dark brown med./coarse SAND with silt and rounded qtz. pebbles | 11 |
| 12 | | | 8.3 ppm | very wet, visible oil product | 12 |
| 13 | | BOTTOM CAP | | | 13 |
| 14 | | | | | 14 |
| 15 | | | 14'-16'- 1,1,4,4 | Very wet dark gray SILT, slight odor | 15 |
| 16 | | | 6.0 ppm | END OF EXPLORATION AT 16' | 16 |
| 17 | | UNDISTURBED NATIVE SOIL | | | 17 |
| 18 | | | | | 18 |
| 19 | | | | | 19 |
| 20 | | | | | 20 |
| 21 | | | | | 21 |
| 22 | | | | | 22 |
| 23 | | | | | 23 |
| 24 | | | | | 24 |
| 25 | | | | | 25 |

PROJECT ROSSI BUICK / OLDSMOBILE

LOCATION RTE. 302 BERLIN, VERMONT

DATE DRILLED 11/8/93 TOTAL DEPTH OF HOLE 16'

DIAMETER

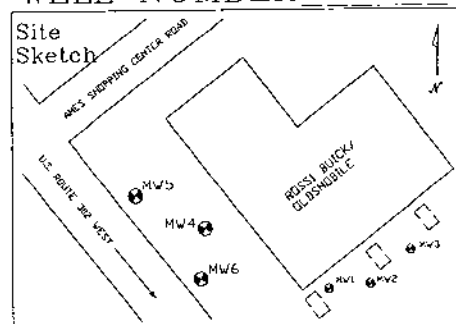
SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.020"

CASING DIA. 2" LENGTH 3.5' TYPE sch 40 pvc

DRILLING CO. GMB DRILLING METHOD HSA

DRILLER GARNEAU LOG BY L. REED

WELL NUMBER MW6



GRIFFIN INTERNATIONAL, INC

| DEPTH IN FEET | WELL CONSTRUCTION | NOTES | BLOWS PER 6" OF SPOON & PID READINGS | DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES) | DEPTH IN FEET |
|---------------------|----------------------|-------------------------|--------------------------------------------|-----------------------------------------------------------------------------|---------------------|
| 0 | | ROAD BOX | | | 0 |
| 1 | | LOCKING WELL CAP | | Asphalt | 1 |
| 2 | | CONCRETE | 0.3'-2.5' | SAND and GRAVEL fill with angular gravel, no odor, slightly damp, brown | 2 |
| 3 | | NATIVE BACKFILL | | | 3 |
| 4 | | BENTONITE | 2.5'-4.0' | Dark brown silty SAND w/rounded pebbles slightly damp, no odor | 4 |
| 5 | | WELL RISER | 6.0 ppm | | 5 |
| 6 | | | 4.0'-6.0' | Silty CLAY, dark brn, very damp, no odor | 6 |
| 7 | | SAND PACK | 5.0'-7.0'- 10,10,9,7 | Silty fine SAND with 5 % rounded pebbles, dark brown, slightly damp no odor | 7 |
| 8 | | WELL SCREEN | 4.9 ppm | | 8 |
| 9 | | | | 9.0' WATER TABLE | 9 |
| 10 | | | | | 10 |
| 11 | | | 10'-12'- 10,7,10,10 | Wet med. to coarse dark brown SAND, with rounded pebbles, very wet | 11 |
| 12 | | | 5.0 ppm | | 12 |
| 13 | | BOTTOM CAP | | | 13 |
| 14 | | | | | 14 |
| 15 | | | 14'-16'- 6,7,7,6 | Dark gray SILT, wet, no odor | 15 |
| 16 | | UNDISTURBED NATIVE SOIL | 5.9 ppm | END OF EXPLORATION AT 16' | 16 |
| 17 | | | | | 17 |
| 18 | | | | | 18 |
| 19 | | | | | 19 |
| 20 | | | | | 20 |
| 21 | | | | | 21 |
| 22 | | | | | 22 |
| 23 | | | | | 23 |
| 24 | | | | | 24 |
| 25 | | | | | 25 |

APPENDIX C

WATER LEVEL DATA

Monitoring Date: 11/15/93

All Values Reported in feet
Elevations are based on Arbitrary Datum
NA - Not Available

APPENDIX D

LABORATORY RESULTS



ENDYNE, INC.

RECEIVED DEC 02 1993

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993

PROJECT CODE: GIRB1285
REF.#: 54,084 - 54,090

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated samples were preserved with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



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Laboratory Services

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(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 25, 1993

PROJECT CODE: GIRB1285
REF.#: 54,084
STATION: MW-1
TIME SAMPLED: 11:35
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------|-----------------------------|
| Benzene | 1 | ND ¹ |
| Chlorobenzene | 1 | ND |
| 1,2-Dichlorobenzene | 1 | ND |
| 1,3-Dichlorobenzene | 1 | ND |
| 1,4-Dichlorobenzene | 1 | ND |
| Ethylbenzene | 1 | ND |
| Toluene | 1 | ND |
| Xylenes | 1 | ND |
| MTBE | 10 | 64.3 |

Bromobenzene Surrogate Recovery: 102%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 25, 1993

PROJECT CODE: GIRB1285
REF.#: 54,085
STATION: MW-6
TIME SAMPLED: 11:55
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------|-----------------------------|
| Benzene | 1 | ND ¹ |
| Chlorobenzene | 1 | ND |
| 1,2-Dichlorobenzene | 1 | ND |
| 1,3-Dichlorobenzene | 1 | ND |
| 1,4-Dichlorobenzene | 1 | ND |
| Ethylbenzene | 1 | ND |
| Toluene | 1 | ND |
| Xylenes | 1 | ND |
| MTBE | 10 | ND |

Bromobenzene Surrogate Recovery: 93%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 10

NOTES:

1 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 29, 1993

PROJECT CODE: GIRB1285
REF.#: 54,086
STATION: MW-5
TIME SAMPLED: 12:15
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)¹</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------------------|-----------------------------|
| Benzene | 50 | 71.1 |
| Chlorobenzene | 50 | ND ² |
| 1,2-Dichlorobenzene | 50 | ND |
| 1,3-Dichlorobenzene | 50 | ND |
| 1,4-Dichlorobenzene | 50 | ND |
| Ethylbenzene | 50 | 285. |
| Toluene | 50 | ND |
| Xylenes | 50 | 108. |
| MTBE | 500 | ND |

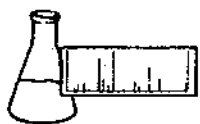
Bromobenzene Surrogate Recovery: 125%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 15

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 2% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 29, 1993

PROJECT CODE: GIRB1285
REF.#: 54,087
STATION: MW-4
TIME SAMPLED: 12:35
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)¹</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------------------|-----------------------------|
| Benzene | 20 | 42.2 |
| Chlorobenzene | 20 | ND ² |
| 1,2-Dichlorobenzene | 20 | ND |
| 1,3-Dichlorobenzene | 20 | ND |
| 1,4-Dichlorobenzene | 20 | ND |
| Ethylbenzene | 20 | 59.7 |
| Toluene | 20 | 348. |
| Xylenes | 20 | 364. |
| MTBE | 200 | ND |

Bromobenzene Surrogate Recovery: 114%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 13

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 5% dilution.
- 2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 29, 1993

PROJECT CODE: GIRB1285
REF.#: 54,088
STATION: Trip Blank
TIME SAMPLED: 11:15
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------|-----------------------------|
| Benzene | 1 | ND ¹ |
| Chlorobenzene | 1 | ND |
| 1,2-Dichlorobenzene | 1 | ND |
| 1,3-Dichlorobenzene | 1 | ND |
| 1,4-Dichlorobenzene | 1 | ND |
| Ethylbenzene | 1 | ND |
| Toluene | 1 | ND |
| Xylenes | 1 | ND |
| MTBE | 10 | ND |

Bromobenzene Surrogate Recovery: 98%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 29, 1993

PROJECT CODE: GIRB1285
REF.#: 54,089
STATION: Equipment Blank
TIME SAMPLED: 12:45
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------|-----------------------------|
| Benzene | 1 | ND ¹ |
| Chlorobenzene | 1 | ND |
| 1,2-Dichlorobenzene | 1 | ND |
| 1,3-Dichlorobenzene | 1 | ND |
| 1,4-Dichlorobenzene | 1 | ND |
| Ethylbenzene | 1 | ND |
| Toluene | 1 | ND |
| Xylenes | 1 | ND |
| MTBE | 10 | ND |

Bromobenzene Surrogate Recovery: 103%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: November 30, 1993
DATE SAMPLED: November 15, 1993
DATE RECEIVED: November 15, 1993
ANALYSIS DATE: November 29, 1993

PROJECT CODE: GIRB1285
REF.#: 54,090
STATION: Duplicate (MW-4)
TIME SAMPLED: 12:35
SAMPLER: J. Bernhard

| <u>Parameter</u> | <u>Detection Limit (ug/L)¹</u> | <u>Concentration (ug/L)</u> |
|---------------------|-------------------------------------------|-----------------------------|
| Benzene | 20 | 44.6 |
| Chlorobenzene | 20 | ND ² |
| 1,2-Dichlorobenzene | 20 | ND |
| 1,3-Dichlorobenzene | 20 | ND |
| 1,4-Dichlorobenzene | 20 | ND |
| Ethylbenzene | 20 | 63.1 |
| Toluene | 20 | 368. |
| Xylenes | 20 | 378. |
| MTBE | 200 | ND |

Bromobenzene Surrogate Recovery: 123%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 14

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 5% dilution.

2 None detected



CHAIN-OF-CUSTODY RECORD

008423

| | | |
|---------------------------------|----------------------------------------------------|---------------------------------------|
| Project Name: Rossi, Dwight | Reporting Address: Griffin | Billing Address: Griffin |
| Site Location: Belton, VT | | |
| Endyne Project Number: GIRB1285 | Company: Griffin Contact Name/Phone #: 877-7708 | Sampler Name: J. Bernhard Phone #: |

[illegible]

| | | |
|-----------------------------------------------|-------------------------------------------|----------------------------------|
| Relinquished by: Signature <i>[Signature]</i> | Received by: Signature <i>[Signature]</i> | Date/Time <i>11/12/93 1:55pm</i> |
| Relinquished by: Signature | Received by: Signature | Date/Time |

Requested Analyses

| | | | | | | | | | | | |
|----|---------------------------------------------------------------------------|----|------------------|----|--------------|----|--------------------|----|------------------|----|----------------------|
| 1 | pH | 6 | TKN | 11 | Total Solids | 16 | Metals (Specify) | 21 | EPA 624 | 26 | EPA 8270 B/N or Acid |
| 2 | Chloride | 7 | Total P | 12 | TSS | 17 | Coliform (Specify) | 22 | EPA 625 B/N or A | 27 | EPA 8010/8020 |
| 3 | Ammonia N | 8 | Total Diss. P | 13 | TDS | 18 | COD | 23 | EPA 418.1 | 28 | EPA 8080 Pest/PCB |
| 4 | Nitrite N | 9 | BOD ₅ | 14 | Turbidity | 19 | BTEX | 24 | EPA 608 Pest/PCB | | |
| 5 | Nitrate N | 10 | Alkalinity | 15 | Conductivity | 20 | EPA 601/602 | 25 | EPA 8240 | | |
| 29 | TCRP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) | | | | | | | | | | |
| 30 | Other (Specify): | | | | | | | | | | |



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REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
DATE REPORTED: December 16, 1993
DATE SAMPLED: December 14, 1993

PROJECT CODE: GIRB1542
REF. #: 55,077 - 55,078

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate data was determined to be within Laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Services

32 James Brown Drive
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LABORATORY REPORT

EPA METHOD 8240 WATER MATRIX

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: December 16, 1993
DATE SAMPLED: December 14, 1993
DATE RECEIVED: December 14, 1993
ANALYSIS DATE: December 15, 1993

PROJECT CODE: GIRB1542
REF #: 55,077
STATION: MW-4
TIME SAMPLED: 9:40
SAMPLER: L.T. Reed

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|--------------------------|-------------------------------|-----------------------------|
| Dichlorodifluoromethane | 10 | ND |
| Chloromethane | 10 | ND |
| Vinyl Chloride | 10 | ND |
| Bromomethane | 5 | ND |
| Chloroethane | 5 | ND |
| Trichlorofluoromethane | 2 | ND |
| Acetone | 50 | ND |
| 1,1-Dichloroethene | 2 | ND |
| Methylene Chloride | 20 | ND |
| Carbon Disulfide | 7 | ND |
| MTBE | 3 | ND |
| trans-1,2-Dichloroethene | 2 | ND |
| 1,1-Dichloroethane | 2 | ND |
| 2-Butanone | 20 | ND |
| Chloroform | 10 | ND |
| 1,1,1-Trichloroethane | 1 | ND |
| Carbon Tetrachloride | 1 | ND |
| 1,2-Dichloroethene | 1 | ND |
| Benzene | 1 | 12.7 |
| Trichloroethene | 1 | ND |
| 1,2-Dichloropropane | 1 | ND |
| Bromodichloromethane | 1 | ND |



ENDYNE, INC.

Laboratory Services

REF #: 55,077

32 James Brown Drive
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FAX 879-7103

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|---------------------------|-------------------------------|-----------------------------|
| 4-Methyl-2-Pentanone | 10 | ND |
| cis-1,3-Dichloropropene | 1 | ND |
| Toluene | 2 | 30.7 |
| trans-1,3-Dichloropropene | 1 | ND |
| 1,1,2-Trichloroethane | 2 | ND |
| 2-Hexanone | 10 | ND |
| Tetrachloroethene | 2 | ND |
| Dibromochloromethane | 2 | ND |
| Chlorobenzene | 2 | ND |
| Ethyl Benzene | 1 | 27.1 |
| Total Xylenes | 3 | 241. |
| Styrene | 1 | ND |
| Bromoform | 5 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ND |
| 1,3 Dichlorobenzene | 2 | ND |
| 1,4 Dichlorobenzene | 2 | ND |
| 1,2 Dichlorobenzene | 2 | ND |

NUMBER OF UNIDENTIFIED PEAKS: >10

ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethene-d4: 110.%
Toluene-d8: 106.%
4-Bromofluorobenzene: 90.%

Notes:

1 None detected



ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

EPA METHOD 8240 WATER MATRIX

CLIENT: Griffin International
PROJECT NAME: Rossi Buick
REPORT DATE: December 16, 1993
DATE SAMPLED: December 14, 1993
DATE RECEIVED: December 14, 1993
ANALYSIS DATE: December 15, 1993

PROJECT CODE: GIRB1542
REF #: 55,078
STATION: MW-5
TIME SAMPLED: 10:10
SAMPLER: L.T. Reed

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|--------------------------|-------------------------------|-----------------------------|
| Dichlorodifluoromethane | 10 | ND ¹ |
| Chloromethane | 10 | ND |
| Vinyl Chloride | 10 | ND |
| Bromomethane | 5 | ND |
| Chloroethane | 5 | ND |
| Trichlorofluoromethane | 2 | ND |
| Acetone | 50 | ND |
| 1,1-Dichloroethene | 2 | ND |
| Methylene Chloride | 20 | ND |
| Carbon Disulfide | 7 | ND |
| MTBE | 3 | 3.9 |
| trans-1,2-Dichloroethene | 2 | ND |
| 1,1-Dichloroethane | 2 | ND |
| 2-Butanone | 20 | ND |
| Chloroform | 10 | ND |
| 1,1,1-Trichloroethane | 1 | ND |
| Carbon Tetrachloride | 1 | ND |
| 1,2-Dichloroethene | 1 | ND |
| Benzene | 1 | 68.8 |
| Trichloroethene | 1 | ND |
| 1,2-Dichloropropane | 1 | ND |
| Bromodichloromethane | 1 | ND |



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REF #: 55,078

| <u>Parameter</u> | <u>Detection Limit (ug/L)</u> | <u>Concentration (ug/L)</u> |
|---------------------------|-------------------------------|-----------------------------|
| 4-Methyl-2-Pentanone | 10 | ND |
| cis-1,3-Dichloropropene | 1 | ND |
| Toluene | 2 | 2.7 |
| trans-1,3-Dichloropropene | 1 | ND |
| 1,1,2-Trichloroethane | 2 | ND |
| 2-Hexanone | 10 | ND |
| Tetrachloroethene | 2 | ND |
| Dibromochloromethane | 2 | ND |
| Chlorobenzene | 2 | ND |
| Ethyl Benzene | 1 | 215. |
| Total Xylenes | 3 | 256. |
| Styrene | 1 | ND |
| Bromoform | 5 | ND |
| 1,1,2,2-Tetrachloroethane | 1 | ND |
| 1,3 Dichlorobenzene | 2 | ND |
| 1,4 Dichlorobenzene | 2 | ND |
| 1,2 Dichlorobenzene | 2 | ND |

NUMBER OF UNIDENTIFIED PEAKS: >10

ANALYTICAL SURROGATE RECOVERY:

1,2-Dichloroethene-d4: 98.%
Toluene-d8: 107.%
4-Bromofluorobenzene: 88.%

Notes:

1 None detected



CHAIN-OF-CUSTODY RECORD

Due 12/16/93
A.M. 008462

2-Day Rest

| | | |
|-------------------------------------------|-------------------------------------------------------|--------------------------------|
| Project Name: <u>Ross, Buick # 993547</u> | Reporting Address: <u>2B Dorset LN, Williston, VT</u> | Billing Address: <u>Same</u> |
| Site Location: <u>Berlin, VT</u> | Company: <u>Griffin Int. 879-7708</u> | Sampler Name: <u>L.T. Road</u> |
| Endyne Project Number: <u>G, RB/542</u> | Contact Name/Phone #: <u>Laurie Road</u> | Phone #: <u>879-7708</u> |

[illegible]

RUSH!

| | | |
|---------------------------------------------------------|-------------------------------------------|------------------------------------|
| Relinquished by: Signature <i>Laurie T. [Signature]</i> | Received by: Signature <i>Jon Wetters</i> | Date/Time <i>12/14/93 11:32 Am</i> |
| Relinquished by: Signature | Received by: Signature | Date/Time |

Requested Analyses

[illegible]